

Fig. 1



30173

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FOOT 9/280007

METHOD AND SYSTEM FOR OPTIMIZING INGREDIENT BLENDING

Inventors: Sara J. Trenhaile

GMI Docket No. 5605USA

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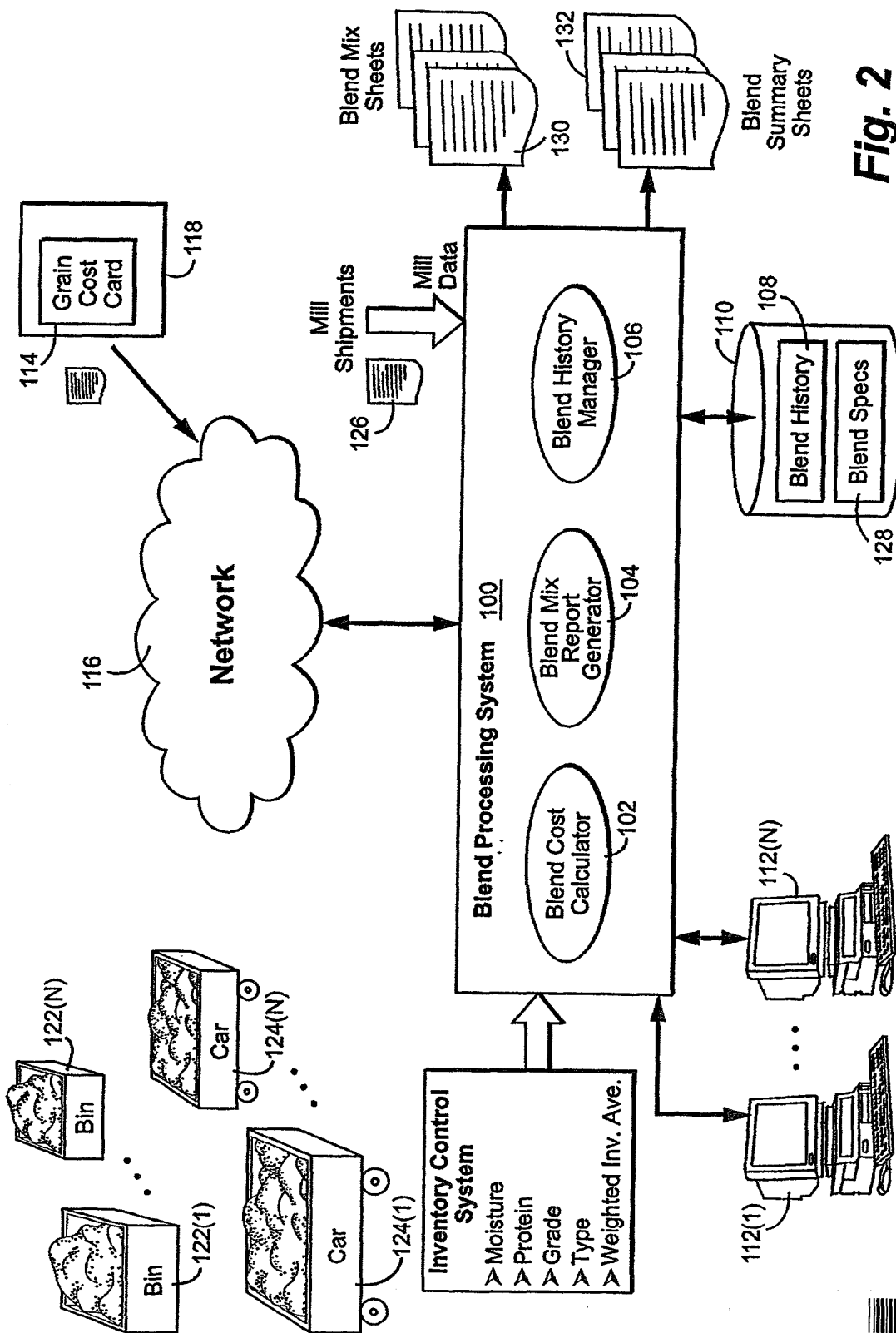


Fig. 2



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FOBOTT 9/28/00T

METHOD AND SYSTEM FOR OPTIMIZING INGREDIENT
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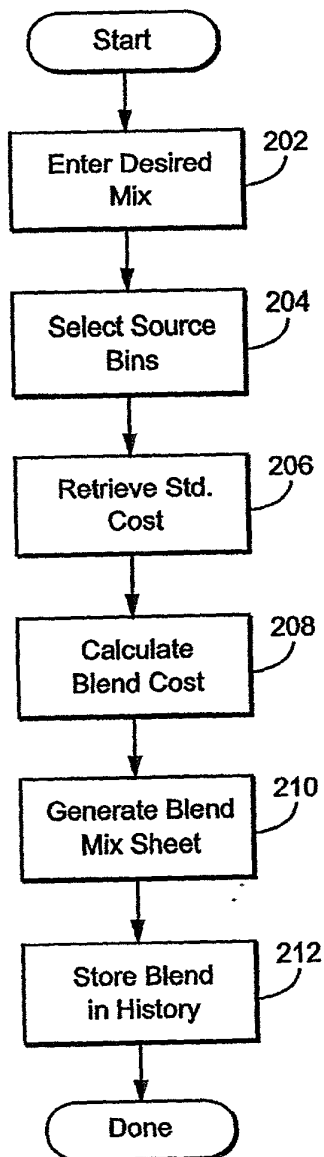


Fig. 3



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METHOD AND SYSTEM FOR OPTIMIZING INGREDIENT
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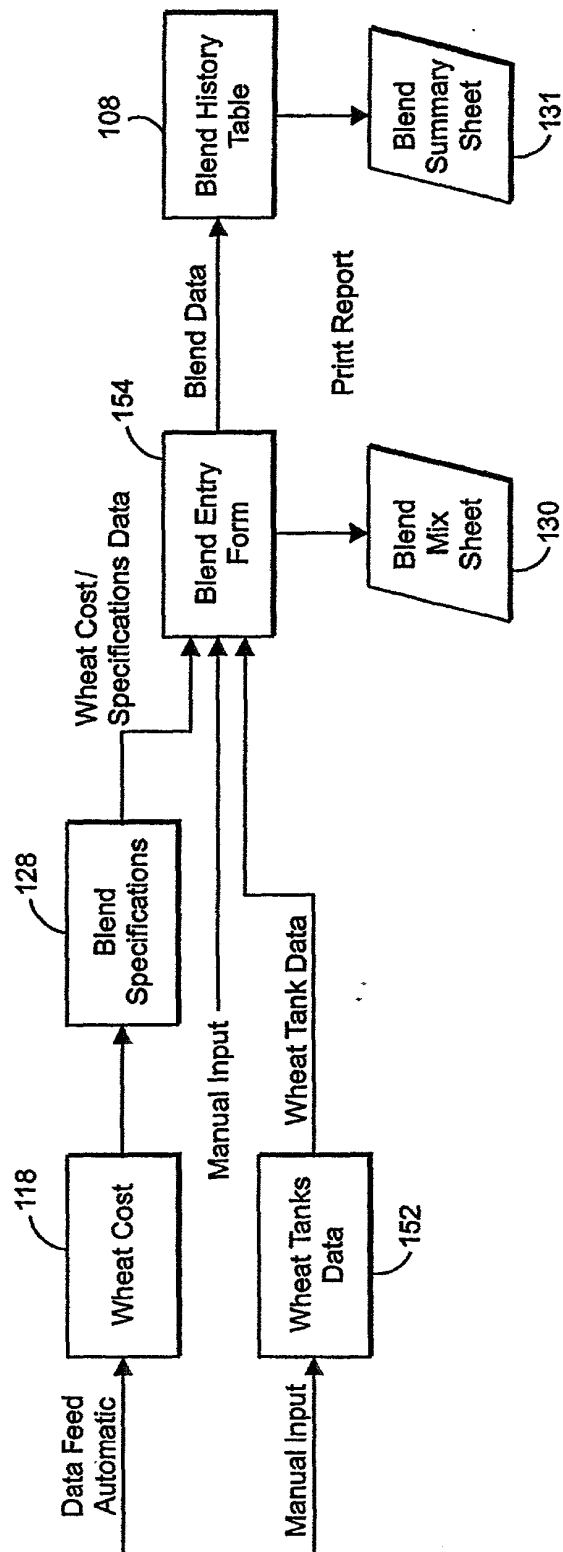


Fig. 4



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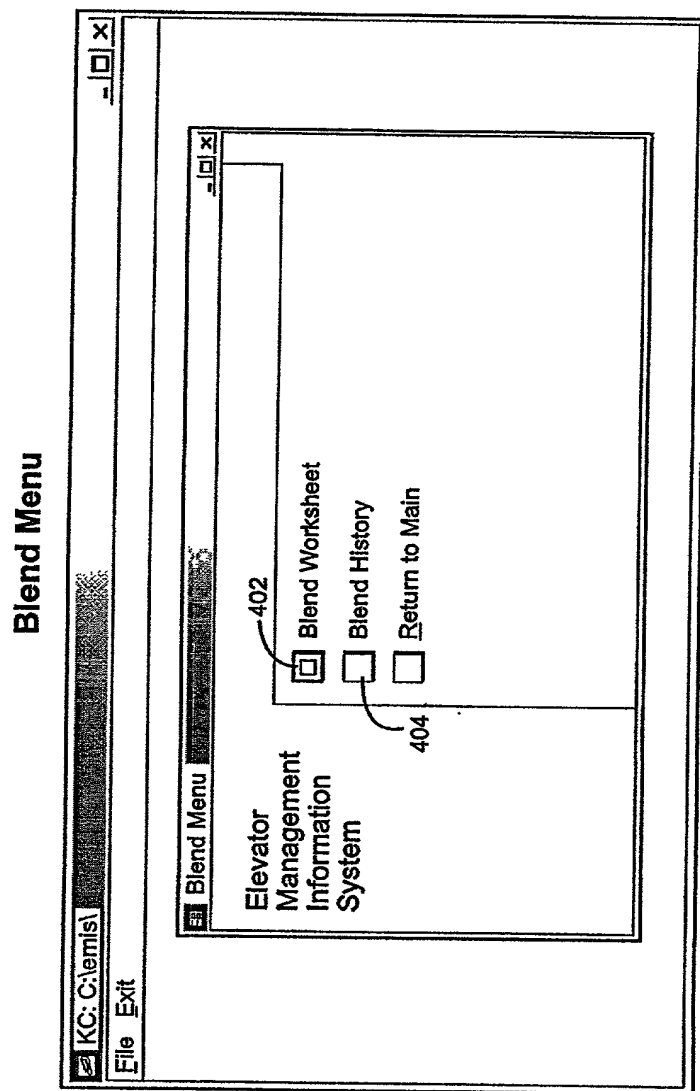


Fig. 5



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FOOT 9428000

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Initial Blend Screen

Blend Menu History Archive Cost Card Delete Add

Target Bin: 203 Min #: 118 Mill Date(s): 03/29/2001

Mill: A 416

Flour Grade: K K MIX 412

Length of Run (hrs): 0 Bushels: 10000

Bin Number	Bin Lot	Cost Card Lot	Prot 12%	%	BU	Std. BU	LBS	TW	Moist.
3002	USWTR120	USWTR120	12.0	50%	5000	0	0	60.7	11.2
3003	USWTR110	USWTR110	11.1	50%	5000	0	0	59.7	11.7
*			0.0	0%	0	0	0	0.0	0.0

TOTALS FOR BLEND: 11.5 100% 10000 0 60.2 11.4

Blend Savings: \$50.00 \$0.01

Cost of Blend

Percent	Lot	Protein (12%)	Cost	Cost Ext.
50.0%	USWTR120	12.0	\$3.62	\$1.81
50.0%	USWTR110	11.1	\$3.61	\$1.80
0.0%				

SUM: 11.550 TOTAL: \$3.61

Cost of Standard Blend

Percent	Lot	Protein (12%)	Cost	Cost Ext.
100.0%	USWTR120	12.0	\$3.62	\$3.62

TOTAL: \$3.62

Measured Prot. 0 Measured TW 0 Measured Moist. 0

Comments:

Record: 14 1 of 12

Fig. 6



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Cost Card Lot [X]

2100100000 was not found on the cost card.
Select the closest log from the cost card list.

OK

KC: C:\emis\ - [Blend Sheet]

File Exit

History Archive Cost Card
Delete Add

Target Bin: 201

Mix #: 250

Mill: A

Flour Grade: H KMX

Length of Run (hrs): 0

Mill Date(s): 04/24/2001

Bushels: 10000

Bin Number	Bin Lot	Cost Card Lot	Prot 12%	%	BU	Std. BU	LBS	TW	Moist.
603	2100100000	USSPR140	11.0	0%	0	0	0	61.1	11.4
		USSPR140	0.0	0%	0	0	0	0.0	0.0
		USSPR145							
		USSPR150							
		USSPR155							
		USSPR160							
		USSPR165							
		USSPR170							
		USSRW000							
0.0% TOTALS			0.0	0%	0	0	0	0.0	0.0
Blend Savings			\$4.02						

Cost of Blend

Percent	Lot	Protein (12%)	Cost	Cost Ext.
50.0%	USWTR120	12.0	\$3.62	\$1.81
50.0%	USWTR110	11.1	\$3.61	\$1.80
0.0%				
SUM:			11.550	TOTAL: \$3.61

Cost of Standard Blend

Percent	Lot	Protein (12%)	Cost	Cost Ext.
100.0%	USWTR120	12.0	\$3.62	\$3.62
TOTAL:			\$3.62	

Measured Prot. 0

Measured TW 0

Measured Moist 0

Comments:

Record: 1 of 12

Fig. 7



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Blend Menu

Kansas City Elevator

Blend Mix Sheet

04/24/2001

Mix #: 113

Target Bin: 203 Mill Date(s): 03/29/2001

Mill: A

Length of Run (hrs.): 0

Bushels: 10000

GRADE: K K MIX

Bin #	Percent	Prot. 12% MB	Prot. 14% MB	Bushels	Test Wt	Moisture	Lot	CC Lot
3002	50%	12.0	11.7	5000	60.7	11.2	USWTR120	USWTR120
3003	50%	11.1	10.8	5000	59.7	11.7	USWTR110	USWTR110
Totals For Blend:					11.6	11.3	10000	60.2 11.4

Blend Savings: \$50.00 \$0.61

Cost of Blend

Percent	Lot	Prot. 12	Cost	Cost Ext.
50%	USWTR120	12.0	\$3.62	\$1.81
50%	USWTR110	11.1	\$3.61	\$1.80
100%				\$3.61

Cost of Standard Blend

Percent	Lot	Prot. 12	Cost	Cost Ext.
100%	USWTR120	12.0	\$3.62	\$3.62
100%				\$3.62

Measured TW:

0

Measured Moisture:

0

Measured Protein:

0


COMMENTS:

Fig. 8



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 KC: C:\eml\ - [rptBlendMixSheet : Report]

File Exit

Blend Mix Sheet

04/24/2001

Kansas City Elevator

Mix #: 153

Target Bin: 3015
Min Date: 04/19/2001

File: A

Length of Run (hrs.): 0

Bushels: 10000

GRADE: E

Bln #	Percent	Prot. 12% MB	Prot. 14% MB	Bushels	Test Wt	Moisture	Lot	CC Lot
1001	50%	0.0	0.0	5000	0.0	0.0	USWTR110	USWTR110
3016	50%	11.7	11.4	5000	61.2	12.2	USWTR115	USWTR115
Totals For Blend:		5.8	5.7	10000	30.6	6.1		

Blend Savings: **\$7,025.0** **\$0.70**

Cost of Blood

Percent Lat	Prot. 12	Cost	Cost Ext.
50% USWTR110	0.0	\$3.61	\$1.80
50% USWTR115	11.7	\$3.62	\$1.81
100%			\$3.61

Cost of Standard Blend

Cost Card Dates: 1:10:33 PM				
Percent	Lot	Prot. 12	Cost	Cost Ext.
80%	USSPR155	15.5	\$4.33	\$3.46
20%	USSPR150	15.0	\$4.28	\$0.86
100%				\$4.32

Measured TSP

Measured Moisture

Measured Protein:

COMMENTS:

Fig. 8A



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Blend History

KC: C:\emis\ - [Blend Sheet]

File Exit

Mix History

Retrieve Reset Delete

MIX # Flour Grade Milling Date

MIX #	Milling Dt	Grade	Mill	Bushe	Cost Card Dt	Target Bin	Savings
115	04/10/2001	A MIX	A	1000.00	03/10/2001	201	(\$338.80)
20	04/10/2001	A MIX	C	3751.00	03/19/2001		(\$618,759.71)
203	01/06/2001	A MIX	A	1952.00	04/01/2001		\$63.44
204	01/16/2001	A MIX	C	975.00	04/05/2001		\$369.74
206	02/15/2001	A MIX	C	3125.00	03/02/2001		\$48.14
302	08/15/2001	A MIX	C	3753.00	04/10/2001		\$93.45

Fig. 9



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KC: C:\emis\

File Exit

Mix History

Retrieve

Reset

Delete

MIX #

Flour Grade

AZZ

Milling Date

Mix #

Milling Dt

Grade

Mill

Bushels

Length

Cost Card Dt

Target Bin

Savings

115	03/10/2001	A MIX	A	1000.00	0	03/20/2001	201	(\$328.80)
20	04/10/2001	A MIX	C	3751.00	3	03/19/2001		\$518,759.71
203	01/06/2001	A MIX	A	1952.00	3	04/01/2001		\$63.44
204	01/16/2001	A MIX	C	975.00	2	04/05/2001		\$988.74
206	02/15/2001	A MIX	C	3125.00	2.5	03/02/2001		\$48.14
302	08/15/2001	A MIX	C	3753.00	3	04/10/2001		\$93.45

Fig. 9A



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Blend History

Mix History

Retrieve

Reset

Delete

MIX #

Flour Grade

AZZ

Milling Date

Mix #	Milling Dt	Grade	Mill	Bush
115	04/10/2001	A MIX	A	1000
20	04/10/2001	A MIX	C	3751
203	01/06/2001	A MIX	A	1952
204	01/16/2001	A MIX	C	975.0
205	02/15/2001	A MIX	C	3125
302	08/15/2001	A MIX	C	3753

Blend History

04/24/2001

Kansas City Elevator

Mix #:

115

Mill: A

Length of Run (hrs.): 0

Bushels: 1000

Grade: A MIX

Cost Card Date: 03/30/2001

Target Bin: 201

Mill Date(s): 04/10/2001

Blend Mix Cost: \$3.95

Cost Card Mix Cost: \$3.61

Ingredient Cost: \$3,946.30

Over Standard: (\$338.80)

TW: 60.8

Moisture: 12.2

Protein: 13.6

Measured TW: 65

Measured Moisture: 2

Measured Protein: 15

COMMENTS:

131

Fig. 10



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FOOT-9280007